1019-49-51 **Giovanni Leoni*** (`giovanni@andrew.cmu.edu`), Department of Mathematical Sciences, Carnegie Mellon University, Pittsburgh, PA 15213. *On the Contact-angle Condition for Stranski-Krastanow Islands.*

We study from the variational point of view a mathematical model for the epitaxial deposition of a film onto a relatively thick substrate in the case of a mismatch between the lattice parameters of the two crystalline solids. This is joint work with I. Fonseca, N. Fusco and M. Morini (Received August 02, 2006)